

(19) World Intellectual Property
Organization
International Bureau



553 494

(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092977 A2

(51) International Patent Classification⁷: **G06F 17/24**

(21) International Application Number:
PCT/EP2004/003048

(22) International Filing Date: 27 February 2004 (27.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03368037.2 18 April 2003 (18.04.2003) EP

(71) Applicant (for all designated States except US): **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, NY 10504 (US).

(71) Applicant (for MC only): **COMPAGNIE IBM FRANCE** [FR/FR]; Tour Descartes, La Défense 5, 2, Avenue Gambetta, F-92400 Courbevoie (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AUREGLIA, Jean-**

Jacques [FR/FR]; 1094 Route du Canaire, F-06670 Saint Martin du Var (FR). **BAUCHOT, Frederic** [FR/FR]; 299 Chemin du Vallon, La Tourraque, F-06640 Saint Jeannet (FR).

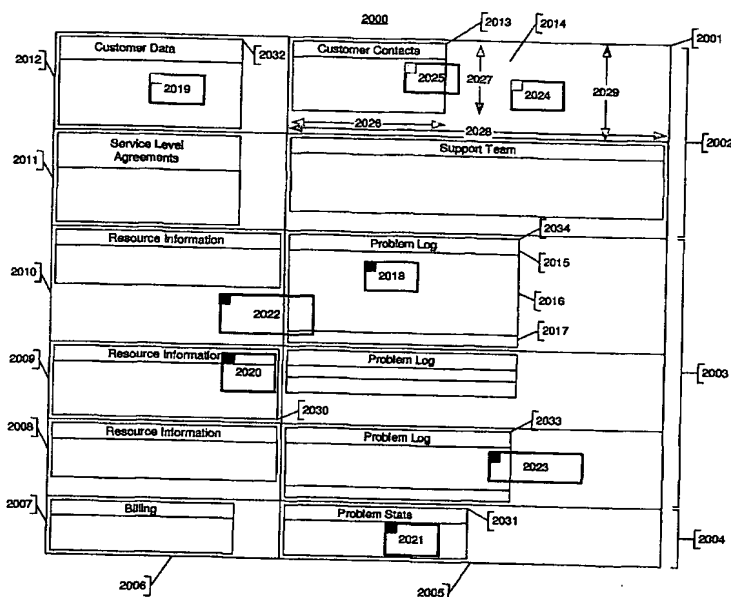
(74) Agent: **DE PENA, Alain**; Compagnie IBM France, Direction de la Propriété Intellectuelle, F-06610 La Gaude (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: **SYSTEM AND METHOD IN A DATA TABLE FOR CREATING RECURSIVE SCALABLE TEMPLATE INSTANCES**



(57) Abstract: The present invention is directed to a method, system and program, in a multi-dimensional electronic data table comprising a plurality of data, for creating one or plurality of recursive scalable template instances; a recursive scalable template instance comprising a variable number of contiguous recursive element instances ordered and aligned along a first data table dimension and structured according to a recursive scalable template; a recursive element instance being defined as comprising one or a plurality of scalable template instances; a scalable template instance comprising a variable number of elements structured according to a scalable template; an element being defined as a range of data; a range of data comprising one or a plurality of data; a recursive scalable template comprising a recursive element comprising one or a plurality of scalable templates. The method comprises for each recursive scalable template instance to create, the steps of: • Selecting a recursive scalable template; •

Defining a location for creating a recursive scalable template instance; • Creating at the defined location one or a plurality of contiguous recursive element instances ordered and aligned along a first data table dimension; each recursive element instance having a variable size along said first data table dimension and a same size along a second data table dimension; • Structuring each recursive element instance according to the recursive element defined for the recursive scalable template; • Aligning each scalable template instance of each recursive element instance along said first data table dimension; • Aligning within each recursive element instance, each scalable template instance along said second data table dimension.

WO 2004/092977 A2



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.